

State of Hawaii  
Wireless Enhanced 911 Board

SUBJECT: Minutes of January 19, 2007 Meeting

Members in Attendance: Gordon Bruce, Russ Saito, Catherine Awakuni, Joel Matsunaga, Pete Jaeger, Milton Matsuoka, Dexter Takashima, and Paul Ferreira (attachment 1). Pete Jaeger was assigned the proxy for Roy Irei and Jeff Yamane (attachment 2).

Staff in Attendance: Philip Kahue (Executive Director), Bill Doolittle (Technical Consultant), Tony Ramirez (PM for PSAPs), and Kerry Yoneshige (ASO for DAGS).

Guests in Attendance: Clement Chan (PM for Oahu PSAPs), and Russell Suzuki (Attorney General's Office).

1. The chair called the meeting to order at 10:18 a.m.
2. The minutes of the December 8 and 21, 2006 meetings were approved.
3. Committee Updates by Chairs
  - a. Finance Committee Report.
    - i. The Statement of Cash Flows shows the account balances for both the General Fund and the Grant Fund (attachment 3). End of month, December 2006 General Fund balance is \$15,210,178.55.
    - ii. End of month, December 2006 Grant Fund balance is \$916,469.19.
    - iii. Mr. Matsunaga stated that State Representative Cindy Evans (Island of Hawaii), chair of Public Safety, is concerned that individuals calling into the emergency line (911) will not be able to get through. This is in the wake of the earthquake on the Island of Hawaii. Her second area of concern is having the islands emergency personnel capable of communicating with each other as backup, in a catastrophic event. Mr. Bruce stated that although the calls could be routed to another island, there is no current mechanism to dispatch police or fire from another island.
    - iv. Mr. Kahue mentioned that there are three reimbursement requests going through the approval process: Maui PSAP - \$95,616; Honolulu PD- \$8784; and Verizon - \$15K.
  - b. Technical Committee Report (attachment 4).
    - i. Intrado Deployment Update (attachment 5). Intrado fulfilled the requirements of their contract, when MobiPCS completed their deployment testing at Honolulu PD on January 11, 2007. MobiPCS had completed their deployment testing at Hickam AFB, and Pearl Harbor on December 11, 2006. T-Mobile began their drive testing on January 10, 2007.
    - ii. Technical Committee met to discuss expansion issues on wireless e911 (attachment 6). Of the nine ideas presented, items 3 and 9 were combined in to

one issue, and items 4 and 6 were combined. The Board decided that ideas 1, 2, 3 & 9 combined, 4 & 6 combined, and 8, were priority items warranting further development.

1. *In-building coverage enhancements.* Early estimate for installing bi-directional amplifiers within buildings would cost approximately \$100K each. **ACTION ITEM: The Technical Committee (Mr. Yamane) will need a list of State and County buildings with addresses from each County and State Representative on the Board.**
  2. *Expand wireless coverage in rural areas.* Received lists from Oahu and Kauai for rural areas that need coverage. **ACTION ITEM: (Mr. Jaeger) Need rural area lists from Maui and Hawaii PSAP representatives before the next Board Meeting.** Mr. Matsunaga and Mr. Saito asked if the wireless carriers could provide coverage maps to see where the gaps in coverage occur. **ACTION ITEM: (Mr. Jaeger) Need coverage maps from each wireless carrier for their service areas.**
  3. *Purchase hard drives for shared mapping and data applications.* This item has been combined with item 9 below. Need to consider maintenance and support for life cycle replacement. If Pictometry is considered, it can be added to this initiative. There is a maintenance program for Maui, Molokai, Kauai, and Hawaii via Positron. The invitation would be extended to Oahu, though not on the Positron system.
  4. *Project Locate for network based carriers.* The network-based carriers are Cingular Wireless and T-Mobile. RCC is capable of completing this project. When the counties are ready to utilize this service, a total quote will be presented to the Board for approval.
  5. *Increase manpower hours via county request.* Mr. Takashima will be contacting the Mr. Kahue to discuss this initiative.
  6. *Post deployment audits.* Provides for end-to-end field testing of 911 calls (i.e., individual in car placing calls and recording results). RCC submitted quotes to complete this project. Quotes were handed out to the counties for review.
  7. *Customer education for the counties.* This initiative is passed to the Public Relations Committee, and closed from the Technical Committee.
  8. *Refine the leasing process for wireless carriers to build sites.* License agreements and appeasement agreements will need to be investigated to see if this is feasible. **ACTION ITEM: Mr. Bruce stated that he can forward the documents he has to the Technical Committee.**
  9. *Improve mapping.*
- c. Policy and Objectives Committee Report – Nothing to Report. Ms. Awakuni asked who is responsible for drafting legislative testimonies for the Board. Although Mr. Cole drafted testimonies for the Board in the past, the ED (Mr. Kahue) will draft future legislative testimonies for the Board, that will be reviewed for appropriateness and approval.
- d. Administration Committee Report. Nothing to Report.

- e. Public Relations Committee Report. Mr. Kahue stated that he received approval from Mr. Russell Pang (Chief of Media Relations, Office of the Governor) for the Board's Press Release. **ACTION ITEM: Mr. Kahue will get with Mr. Sodeani of DAGS to engage the URL ([www.hawaiiwireless911.hawaii.gov](http://www.hawaiiwireless911.hawaii.gov)).**

4. PSAP Status Updates.

- a. Kauai
  - i. Expect the Request for Service (RFS) Letters to the wireless carriers to go out soon after their Contracting Division completes their contract with Positron.
  - ii. They are within days of a final contract with Positron for their GIS mapping system. They are awaiting IRS certification for tax exemption.
- b. Oahu (attachment 7)
  - i. Mr. Chan stated that MobiPCS has successfully completed their drive tests for all sectors on January 8th.
  - ii. T-Mobile successfully completed all of their drive tests for all sectors on Oahu on January 12th.
  - iii. Verizon had a pre-deployment review with Intrado and Hawaiian Telcom on January 17th. They plan to start drive testing on January 22<sup>nd</sup>.
  - iv. Cingular is expected to start their drive testing on February 5<sup>th</sup>. However, they still have a number of corrections on their routing sheets.
  - v. Sprint and Nextel have not developed a schedule yet.
- c. Molokai
  - i. Scheduled to be completed by March 2007.
- d. Maui – Nothing to Report. 100% deployed.
- e. Hawaii
  - i. Call routing sheets have been completed by Sprint, Nextel, Verizon, and Cingular. T-Mobile's call routing sheets will be submitted next Thursday. No call routing sheets received by MobiPCS yet.
  - ii. Expect contract with Positron to be completed by the end of the month, with system installed and ready by mid-March.

5. Executive Director's Report – (attachment 8) – Reports filed last month, and upcoming reports were highlighted.

- a. The Certification Audit for Maui PSAP and the Consumer Education Initiative was discussed in the Technical Committee Update.
- b. The draft IGA for City and County of Honolulu was sent to Ms. Nakayama in the County Finance Director's office for review. The draft IGA for Hawaii County was sent to Mr. Takaba, and he recommended we resubmit for the Mayor's signature. The draft IGA for Kauai County was sent to their Corporation Counsel for review. The draft IGA for Maui County was put on hold by the Finance Director until the new Mayor got settled in office.
- c. The press release was discussed during the Public Relations Committee update.
- d. The Maui PSAP reimbursement request was discussed in the Finance Committee update.

- e. The ED forwarded a company overview of L. Robert Kimball Associates to Mr. Jaeger. They are a telecommunications and engineering consulting firm that provides assistance on emerging telecommunications technologies.
- f. Ms. Jones of the Maui PD, stated that Assistant Chief Nakashima's replacement hasn't been identified yet. Eligible candidates have until January 23rd to submit their applications. Interviews will be conducted after this date and the candidate selected will be forwarded to the Mayor for approval.

## 6. Discussion Items

- a. Selection Process for New Board Chair and Vice Chair.
  - i. The Board determined that all Board members should be eligible for the position of Chair and Vice Chair.
  - ii. The length of term for the Chair is one year according to the Statute (§138).
  - iii. Mr. Bruce made a motion to vote for a new Chair and Vice Chair at the next Board Meeting, which was seconded by Mr. Matsunaga and carried unanimously.
  - iv. Mr. Kahue will solicit nominees from the Board members and make the list available to the Board Members on February 2<sup>nd</sup>, one week before the next Board meeting. **ACTION ITEM: ED will add the voting for a new Board Chair and Vice Chair to the next Board meeting agenda.**
  - v. Mr. Yoneshige recommended that the ED develop Board By-Laws for the Board and its Committees. **ACTION ITEM: ED to develop By-Laws for Board.**
- b. The Intrado Contract Procurement Violation paperwork is being reviewed by Ms. Ohara and Mr. Yoneshige.
- c. Process Flow of Reimbursement Approvals (Attachment 9).
  - i. This process flow is to assist Board members in identifying the process for reimbursements.
  - ii. Mr. Jaeger recommended that time lines be added to the process flow chart. **ACTION ITEM: ED to add timelines to the Process Flow Chart.**
- d. Update on Budget Forecast.
  - i. There are gaps in the budget forecast due to unknown non-recurring and monthly recurring costs for both the PSAPs and Wireless Carriers.
  - ii. The budget forecast also does not include the GIS mapping costs that will be covered by the Grant Fund.
  - iii. The expanded coverage issues being investigated by the Technical Committee will also impact the budget, and these costs have not yet been quantified.
  - iv. **ACTION ITEM: PSAPs and Wireless Carriers need to send a letter to the ED with their rough estimates of their current and ongoing costs so that the Comptroller can defend the role of the Board to the Legislature.**
- e. There was no discussion on the Surcharge Adjustment Proposal.
- f. Oahu PSAP request for overtime for deployment testing. Mr. Saito made the motion to approve all overtime costs associated with deployment testing at the PSAPs, that was seconded by Mr. Ferreira, and carried unanimously.

- g. The status of the Honolulu Police Department Circuit issues. Mr. Jaeger made a motion to cover the HPD Circuit issues as presented in the December 21<sup>st</sup> Board meeting, that was seconded by Mr. Saito, and carried unanimously.
- h. Akimeka Contract Extension.
  - i. The Board determined that only the Akimeka contract for Executive Director duties, should be approved for execution for the first option year. Mr. Saito made a motion to approve, that was seconded by Mr. Ferreira, and carried unanimously.
  - ii. Any other services (Program Management of PSAPs) that could be performed by another competitor should be competed. Mr. Saito made a motion for DAGS to execute an exemption contract for Program Management duties for the PSAPs as a separate contract from the Executive Director contract, and that it be reimbursed from the Wireless Enhanced 911 Fund. Mr. Matsunaga seconded the motion, and it was carried unanimously.

## 7. Action Items.

### a. PSAP and State Representatives on Board:

- i. Send a list of County and State buildings, with addresses, to Jeff Yamane for the in-building coverage enhancement initiative of the Technical Committee.

### b. PSAP Representatives:

- i. Maui and Hawaii PSAP Representatives need to send a list of rural areas that lack wireless coverage to the Mr. Jaeger before the next Board meeting.
- ii. All PSAP Representatives need to send a letter to the ED with their rough estimates of their current and ongoing costs so that the Comptroller can defend the role of the Board to the Legislature.
- iii. Mr. Bruce stated that he will forward licensing and easement agreements to Mr. Jaeger for the, "*Refine the leasing process for wireless carriers to build sites*" initiative.

### c. Wireless Carriers:

- i. Need to send a letter to the ED with their rough estimates of their current and ongoing costs so that the Comptroller can defend the role of the Board to the Legislature. The ED will contact the wireless carriers that do not have representative on the Board (Sprint, Verizon, and MobiPCS).
- ii. Need to send coverage maps to Mr. Jaeger so the Technical Committee can determine areas that lack wireless coverage. This is in conjunction with the expansion of coverage for rural areas initiative of the Technical Committee. The ED will contact the wireless carriers that do not have representative on the Board (Sprint, Verizon, and MobiPCS).

### d. Technical Committee:

- i. The revised wireless enhancement issues presented to the Board are all action items for the Technical Committee.

### e. Executive Director:

- i. Mr. Kahue will get with Mr. Sodehani of DAGS to engage the URL ([www.hawaiiwireless911.hawaii.gov:9119](http://www.hawaiiwireless911.hawaii.gov:9119)).

- ii. Solicit nominees from Board Members for the new Chair and Vice-Chair positions, and add the voting for a new Chair and Vice-Chair as an agenda item for the next Board meeting.
  - iii. Develop By-Laws for the Board.
  - iv. Add timelines to the Reimbursement Request Process Flow Chart.
8. Announcements – There were no announcements.
9. The next meeting is scheduled for Friday, February 9, 2007 at the same location (DAGS Comptroller Conference Room), and time of 10:00 a.m.
10. The meeting was adjourned at 12:43 p.m.



**STATE OF HAWAII**  
**WIRELESS ENHANCED 911 BOARD**

January 19, 2007  
10:00 a.m.

Department of Accounting and General Services  
Comptroller's Conference Room 410  
Kalanimoku Building  
1151 Punchbowl Street  
Honolulu, Hawaii 96813

**AGENDA**

- I. Call to order
- II. Review of Minutes for December 8 and 21, 2006 Board Meetings.
- III. Committee Updates by Chairs.
  - a. Finance Committee
  - b. Technical Committee
  - c. Policies and Objectives Committee
  - d. Administration Committee
  - e. Public Relations Committee
- IV. PSAP Status Updates
  - a. Kauai
  - b. Oahu
  - c. Molokai
  - d. Maui
  - e. Hawaii
- V. Executive Director's Monthly Report
- VI. Discussion Items.
  - a. Selection Process for new Board Chair and Vice Chair
  - b. Status of Intrado Procurement Violation paperwork
  - c. Process Flow of Reimbursement Approvals for PSAPs, WSPs, and Board Member expenses
  - d. Update on Budget Forecast
  - e. Surcharge Adjustment Proposal
  - f. Status of HPD Circuit issues
  - g. Oahu PSAP request for overtime for deployment testing
  - h. Akimeka Contract Extension

VII. Announcements

VIII. Next meeting date and location

IX. Adjournment



**Wireless Enhanced 911  
Board Meeting  
January 19, 2007 – 10:00 a.m.  
Department of Accounting and General Services  
Comptroller's Conference Room 410  
1151 Punchbowl Street, Honolulu, HI 96813**

Name	Agency	Phone
1. Bill Doolittle	SPRINGFIELD	[REDACTED]
2. Dexter Takashima	Kaunoi PD	[REDACTED]
3. Pete Jaeger	SPRINT / NEXTEL	[REDACTED]
4. MILTON MITSUOKA	MPD	[REDACTED]
5. Kenny Yumshy	DAGS	[REDACTED]
6. Russel Suzuki	Attmy Gen.	[REDACTED]
7. Clement Chan	C4C DIT	[REDACTED]
8. Catharine ANAKUNI	DIVISION of Consumer Advocacy	[REDACTED]
9. Tony Ramirez	AKIMEKA	[REDACTED]
10. JOEL MATSUNAGA	Hawaiian Telecom	[REDACTED]
11. GORDON BRUCE	C4C DIT	[REDACTED]
12. Paul K. Ferreira	HEPD	[REDACTED]
13. Russ K. Saito	State DAGS	[REDACTED]
14. Philip Kahue	Akimaka Technologies	943-9545
15.		
16.		
17.		
18.		
19.		
20.		

## Philip Kahue

**From:** Irei, Roy [Roy.Irei@[REDACTED]]  
**Sent:** Thursday, January 18, 2007 12:09 PM  
**To:** Philip Kahue; Bill.Doolittle@[REDACTED]; Catherine Awakuni; Clement Chan; Dexter Takashima; Gordon Bruce; Jeff Yamane; Joel Matsunaga; Kerry Yoneshige; Milton Matsuoka; Myra Ono; Patricia Ohara; Paul Ferreira; Pete Jaeger; Richie Nakashima; Russ Saito; Tony Ramirez  
**Subject:** RE: Agenda for Jan 19th WE911 Board Meeting

Phil,  
I will not be able to attend this meeting and will be assigning my proxy to Pete Jaeger.

Gordon Bruce will be conducting the Jan 19<sup>th</sup> Board Meeting.

Thanks,

Roy Irei  
General Manager, Hawaii  
Engineering & Operations  
PCS: (808) 256-0037  
FAX: (808) 596-2660

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**From:** Philip Kahue [mailto:pkahue@akimekatech.com]  
**Sent:** Thursday, January 11, 2007 11:10 AM  
**To:** Bill.Doolittle@[REDACTED]; Catherine Awakuni; Clement Chan; Dexter Takashima; Gordon Bruce; Jeff Yamane; Joel Matsunaga; Kerry Yoneshige; Milton Matsuoka; Myra Ono; Patricia Ohara; Paul Ferreira; Pete Jaeger; Richie Nakashima; Irei, Roy; Russ Saito; Tony Ramirez  
**Subject:** Agenda for Jan 19th WE911 Board Meeting

Board Members, attached is the agenda that I plan to submit to the Lt. Gov's Office tomorrow. If you would like to make changes or have questions, please let me know.

Mahalo,  
Phil

**Philip Kahue, CHE**  
Akimeka Technologies, LLC  
1600 Kapiolani Blvd, Suite 530  
Honolulu, HI 96814  
808.265.3028  
pkahue@akimekatech.com

1/26/2007

Attach 2

**Philip Kahue**

**From:** Jaeger, Pete [Pete.Jaeger@[REDACTED]]  
**Sent:** Thursday, January 18, 2007 12:06 PM  
**To:** Yamane, Jeff  
**Cc:** Philip Kahue; Roy.Irei@[REDACTED]  
**Subject:** RE: Hawaii WE 911 Technical Committee Jan. 16, 2007

Got your proxy Jeff.

*Pete Jaeger*

Hawaii Tech Ops

PTN [REDACTED]

DC [REDACTED]

FAX [REDACTED]

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**From:** Yamane, Jeff [mailto:jeff.yamane@[REDACTED]]  
**Sent:** Thursday, January 18, 2007 7:13 AM  
**To:** Jaeger, Pete  
**Subject:** Re: Hawaii WE 911 Technical Committee Jan. 16, 2007

Pete,  
I will not be able to make Friday's meeting, January 19, 2007 due to a mandatory company meeting.

I will assign my to you.

Thanks,  
Jeff

-----Original Message-----

**From:** Jaeger, Pete  
**To:** Jayne Nantkes  
**To:** Yamane, Jeff  
**To:** bill.doolittle@[REDACTED]  
**To:** dtakashima@[REDACTED]  
**To:** mmmatsuoka2003@[REDACTED]  
**To:** Roy.Irei@[REDACTED]  
**To:** tramirez@[REDACTED]  
**Sent:** Jan 17, 2007 6:45 AM  
**Subject:** RE: Hawaii WE 911 Technical Committee Jan. 16, 2007

Thank you Jayne!

Pete Jaeger  
Hawaii Tech Ops  
PTN [REDACTED]  
DC [REDACTED]  
FAX [REDACTED]

From: Jayne Nantkes [mailto:Jayne.Nantkes@hawaii.com]  
Sent: Wednesday, January 17, 2007 2:29 AM  
To: Jaeger, Pete; Yamane, Jeff; bill.doolittle@hawaii.com; dtakashima@hawaii.com; mmmatsuoka2003@hawaii.com; Roy.Irei@hawaii.com; tramirez@hawaii.com  
Subject: RE: Hawaii WE 911 Technical Committee Jan. 16, 2007

Pete,

As you know, I am working overnight and may not make the call due to the hour or because of the Verizon deployment call

My action items update are:

6. Per Tony Ramirez, they had already investigated post deployment audits and was going to follow up with you and take my place on this action item.
7. Customer Education - I beleive you spoke with Joel Matsunaga about this, and he recommended a person from a Wireless Carrier, instead of me.

If you should have any questions, please feel free to call me.

Thank you,

Jayne Nantkes  
E9-1-1 Specialist  
Hawaiian Telcom, Inc.

Jayne.Nantkes@hawaii.com

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From: Jaeger, Pete [mailto:Pete.Jaeger@hawaii.com]  
Sent: Tuesday, January 16, 2007 5:41 PM  
To: Jaeger, Pete; Yamane, Jeff; bill.doolittle@hawaii.com; dtakashima@hawaii.com; mmmatsuoka2003@hawaii.com; Roy.Irei@hawaii.com; tramirez@hawaii.com; Jayne Nantkes  
Subject: FW: Hawaii WE 911 Technical Committee Jan.

-----Original Message Truncated-----

**HAWAII WIRELESS ENHANCED 911 BOARD**  
**STATEMENT OF CASH FLOWS**  
**For month ending 31 Dec 06**

General Fund ITEM	Beginning Balance	Net Change	Ending Balance
<b>Cash Inflow:</b>			
Surcharge Collection	\$ 14,239,287.06	\$ 837,195.21	\$ 15,076,482.27
Interest Income	\$ 524,854.48	\$ 50,368.21	\$ 575,222.69
<b>Subtotal Cash Inflow</b>	<b>\$ 14,764,141.54</b>	<b>\$ 887,563.42</b>	<b>\$ 15,651,704.96</b>
<b>Cash Outflow:</b>			
PSAP Reimbursement	\$ (123,355.55)		\$ (123,355.55)
Board Member Travel Expense	\$ (11,471.21)		\$ (11,471.21)
E911 Phase 1 Cost Recovery FY 2005	\$ (15,926.28)		\$ (15,926.28)
Consultant-Akimeka	\$ (243,184.67)	\$ (38,200.85)	\$ (281,385.52)
Audit Expense	\$ (7,825.00)		\$ (7,825.00)
Board Strategic Planning Expenses	\$ (1,562.85)		\$ (1,562.85)
<b>Subtotal Cash Outflow</b>	<b>\$ (403,325.56)</b>	<b>\$ (38,200.85)</b>	<b>\$ (441,526.41)</b>
<b>Totals</b>	<b>\$ 14,360,815.98</b>	<b>\$ 849,362.57</b>	<b>\$ 15,210,178.55</b>

Grant Fund ITEM	Beginning Balance	Net Change	Ending Balance
<b>Cash Inflow:</b>			
Nextel Contribution	\$ 1,250,000.00		\$ 1,250,000.00
<b>Cash Outflow:</b>			
Consulting Expense (Intrado)	\$ (131,500.00)		\$ (131,500.00)
Maui Reception Expense	\$ (2,073.64)		\$ (2,073.64)
Maui PSAP Deployment	\$ (199,957.17)		\$ (199,957.17)
<b>Subtotal Cash Outflow</b>	<b>\$ (333,530.81)</b>	<b>\$ -</b>	<b>\$ (333,530.81)</b>
<b>Totals</b>	<b>\$ 916,469.19</b>	<b>\$ -</b>	<b>\$ 916,469.19</b>

**HAWAII WIRELESS ENHANCED 911 BOARD**  
**STATEMENT OF CASH FLOWS**  
**For month ending 31 Dec 06**

Narrative (General Fund):

1. No reconciliation issues this month.

Narrative (Grant Fund):

No Activity for the month.

Hawaii Enhanced 911 Board Meeting  
Technical Committee Report  
Pete Jaeger Chairman

Jan 19, 2007

- Intrado completed with Oahu.
- Wireless Deployment update
- Technical committee to explore ideas and recommend ways to expand 911 coverage for all carriers.

Respectably submitted by Pete Jaeger

Attach 4

## Hawaii Wireless E9-1-1 Deployments

### **Status Report** **January 11, 2007**

#### **Oahu PSAPs**

Target: Wireless E9-1-1 service initiation with at least one wireless service provider is targeted to be prior to end of calendar 2006.

- Wireless E911 Service Deployment Status:

- As of January 11, 2007, the first carrier deployment testing is complete and service is now live for Mobi PCS for all sectors serving Oahu PSAPs! Congratulations to the City and County of Honolulu Information Technology, Honolulu PD, Pearl Harbor Regional Dispatch Center, Hickam AFB, Mobi PCS, Hawaiian Telcom, and Intrado Wireless teams for their efforts in reaching this important public safety milestone for the citizens of the State of Hawaii.

The Mobi PCS deployment team completed successful drive testing for all sectors routing calls to Honolulu PD on Monday, January 8. Following a review of the test results and resolution of a few lingering issues, Captain Michael Correa informed Mobi on Wednesday, January 10, to activate Wireless E9-1-1 Phase II service live.

Successful drive testing for all sites routing calls to the Military PSAPs was previously completed the week of December 11, 2006.

- T-Mobile began their drive testing on Wednesday, January 10, and is scheduled to run through the end of the week.

- Carrier Implementation Schedule

- Clement Chan, C&C Honolulu IT, is now managing the remaining deployment schedule for the Oahu PSAPs. Carrier trunk installations are either completed or in progress for all carriers, and call routing worksheets continue to be reviewed by the PSAP stakeholder team.

- 9-1-1 Mapping System:

- GeoComm has completed the installation of their systems at all of the Oahu PSAPs. This comprehensive work effort concluded in mid-December, 2006.

- PSAP User Training:

- Intrado's PSAP user training is on hold pending contract renewal. Philip Kahue with Akimeka is managing the renewal process with the State.

- Administrative Items

- The Intrado contract extension and Change of Service for Training Services documents remain to be signed by the State of Hawaii representative and returned to Intrado. These documents will need to be completed before the additional service can be provided so as to avoid any additional state procurement violations.



## Hawaii Wireless Enhanced Technical Committee Discussion Notes

January 17, 2007

### Goal

Explore ideas and recommend ways to expand 911 coverage for all carriers.

### Current Objective:

9 ideas are being considered. Our objective would be to lock in on a couple of these ideas and do them well. The most viable ideas are #1, #2 for coverage improvements, #3/9 for better data, and #8 to improve leasing capabilities. The #4 and #6 can be forwarded to the Counties for implementation.

### Ideas Considered

Idea	Owner, Cost and timeline	Detailed Description	Issues/Discussion
1. In-building coverage enhancements for State and County buildings.	Jeff Yamane owner Proposed list of buildings and cost for each ones. Draft by 1-12-06	Deploy bi-directional amplifiers in key facilities to enhance talk-in and talk-out capability; equipment and installation provided by carriers.	<ul style="list-style-type: none"> <li>As emitters, they are considered part of the licensee's infrastructure; can 3<sup>rd</sup> parties deploy without carrier permission?</li> <li>Need to be broadband/multiband (cellular, PCS) to support multiple carrier networks.</li> <li>To minimize interference, only one system per facility.</li> <li>Needs post-installation monitoring to ensure new interference not created. 1-17-07 Trying to contact vendor. Work in progress</li> </ul>

2. Expand wireless coverage in rural areas.	<p>Pete Jaeger - owner</p> <p>Areas may be NE Maui, road to Hana, and Kaena Point. 1-17-07 We have updated coverage areas for Kauai and Oahu. Still need Maui and the Big Island areas</p> <p>Cost at \$350,000 per carrier for cell site.</p> <p>Raw land sites at \$1,000,000 per site.</p> <p>Time line would be 2 years per area with multiple area projects running in parallel.</p>	<p>Provide enhanced coverage (access to 'dial tone') through additional remote sites; sites could include a) new State constructed facilities, b) allowing co-location with existing State/local government sites, or c) funding new sites constructed by carriers. Presumes areas without adequate facilities (towers, structures, etc.)</p>	<ul style="list-style-type: none"> <li>• Co-location provides shortest time to deploy; requires additional site coordination, potentially new access requirements.</li> <li>• New sites constructed by State increase assets under management; need for additional long-term resources (e.g., site/facilities management expertise &amp; staffing).</li> <li>• Fund only areas where there is no carrier coverage.</li> <li>• Concern with funding of sites for carriers (e.g., fairness/equity between carriers, government enhancement of commercial entities, etc.)</li> </ul>
3. Purchase hard drives for shared mapping and data applications.	<p>Owner - Tony Rameriz</p> <p>Hire consultant to see what can be done with expanded scope.</p>	<p>Enhance local hardware platforms for the display of wider area geographic information; greater storage allows display of data for adjacent islands, providing for better coordination of response.</p>	<ul style="list-style-type: none"> <li>• Hardware only initiative does not address need for additional integration of data (e.g., edge-matching, translation, layer coordination, etc.)</li> <li>• Need to consider maintenance &amp; support, life cycle replacement; differing GIS/mapping platforms. 1-17-07 update-C &amp;C of Honolulu has enough disk space. Positron has enough hard drive space. Contracts will be in place by end of January. There is a maintenance program for the Counties using Positron. If we move to Pictometry we will get the hard drive space via that vendor. We recommend we subscribe to a maintenance program to update files on a certain percentage (say 30%) every two years. County of Hawaii (Clayton and Nigawa) has extended a plan to sponsor a centralized administration for GIS</li> </ul>

			mapping for Kauai, Maui, and Hawaii Counties. Invite will be extended to Honolulu but not on Positron software.
4. Project locate for network based carriers.	Owner – Jeff Yamane	Field survey of cell site locations to provide more accurate location information of network-based Phase II location reporting.	<ul style="list-style-type: none"> <li>Requires survey or corrected GPS position information.</li> <li>Other systematic location errors may mask benefit of this single improvement. 1-17-07 Project locate can be completed by RCC. Still researching this but may move to Counties to see if needed.</li> </ul>
5. Increase manpower hours via county request.	Owner Takashima Next step is to discuss with ED – Phil Kahue	Provide additional staffing to support local mapping efforts, such as field validation, data checking, surveys, developing GIS 'tools', etc.	<ul style="list-style-type: none"> <li>Depending on specific tasking, may require different expertise.</li> <li>Potential overlap with existing or pending local initiatives.</li> <li>Need to determine scope of manpower administration: does each county supervise work?</li> <li>Need to determine scope of 'projects' for consideration; easily contributes to non-911 related GIS improvements. 1-17-07 need update</li> </ul>
6. Post deployment audits.	Owner Tony Rameriz Jayne Nankes & Pete Jaeger. Jayne will research what is being done and Pete will look into carrier reports. Quote is \$95k per County.	Evaluates coverage and location accuracy; provides for end-to-end field testing of 911 calls (i.e., individual in car placing calls and recording results). Alternately, provide reports of actual calls received, reported and found accuracy and outcomes.	<ul style="list-style-type: none"> <li>Need to consider burden on PSAPs (i.e., additional call volume or staffing 'test' position).</li> <li>Call volumes may not support legitimate evaluation of FCC criteria.</li> <li>Need to consider broader audit scope (e.g., include procedures, maintenance criteria, etc.)</li> <li>911 reports may not include sufficient information to map Phase II location with found location. 1-17-07 RCC is a company that does these audits. An audit will encompass accuracy testing. Validating call routing sheets, the data stream is formatted correctly, and information being received is compliant with FCC order. With limited drive</li> </ul>

				<p>routes and data points the audit may give you as false sense of accuracy. Committee recommends that the County make a determination whether this is needed for their needs or have the Counties request the Board come up with an accuracy and audit plan.</p> <ul style="list-style-type: none"> <li>Materials readily available from NENA, APCO.</li> <li>Need to coordinate with local public relations entities (City, County, public safety) as well as carriers.</li> <li>Improves public perception, provides programmatic feedback to public.</li> <li>Likely reduces false wireless 911 calls.</li> </ul> <p>1-17-07 Phil is Chariman Roy, Russ, Gordon, Riche, Milton, Dexter, This is CLOSED from Tech committee discussion</p>
7. Customer education for the Counties that have deployed W911 with all carriers.	Owner Jayne Nankes reassigned to Board Public Relations Committee Develop our own marketing program and support County programs	Public education campaign to clarify wireless 911 capabilities; could also include information on unintentional calls, awareness of location, etc.		<ul style="list-style-type: none"> <li>Facilitates expansion of carrier networks. Boiler plate letter to support carriers applications.</li> <li>Need to consider level of effort required to support the numerous carriers and ongoing site applications.</li> <li>Need to consider numerous private/commercial site owners and leasing companies. 1-17-07 Work in progress. C &amp; C of Honolulu has developed a process including a lease template, Cost structure for collocation based on land space. Suggestion is to follow C&amp;C of Honolulu lead on the documents.</li> <li>Provides additional landmark information for verbal location confirmation with caller.</li> <li>Requires significant data collection and editing effort.</li> <li>Need to consider statewide standards</li> </ul>
8. Refine the leasing process for wireless carriers to build sites.	Owner Tony Rameriz Tony will review the current situation and offer suggestions on proceeding.	Educate local planning boards as to benefits of additional carrier sites and contributions to public safety; provide 'friend of' support for carrier permit applications. Could also include improvements in business processes for State and local government site managers (e.g., boilerplate agreements, leasing rates).		
9. Improve mapping.	Owner Roy Irei Related to idea #3.	Additional 'layers' of information in public safety mapping systems, such as topography/terrain features, landmarks, mileposts, trails, waterways, etc. Presumes existing area wide map coverage with		

		established street network.	(formats, nomenclature, labeling, accuracy, etc.) for portability of data to all PSAPs. 1-17-07 update See note three for update. Should combine #3 and 9 into one idea.

### **Mobi**

Live on Thursday, 01/11/07, after they completed the drive tests for all sectors on 1/8/07.

### **T Mobile**

On Friday, 01/12/07, T Mobile completed the drive tests for all sectors for Oahu PSAPs. However, as of today, their Punahou overflow trunking is not functioning properly. Their technician will not be available until the week of 1/22/07 in order to resume the troubleshooting. T-Mobile will go live when this issue is resolved.

### **VZW**

On Wednesday, 01/17/07, the PSAPs had a pre-deployment review with VZW and Intrado and Hawaiian Telcom. They plan to start the drive tests on Monday, 1/22/07, at Pearl & Hickam and start with HPD on Tuesday, 01/23/07, for about 7 days.

### **Cingular**

Scheduled to start the drive test on Monday, Feb 5, 2007. However, still have quite a number of corrections on their routing. Intrado found a spreadsheet from Cingular where they already corrected the addresses and lat/longs. They will be sending this corrected spreadsheet to us on Monday, 1/22/07.

### **Sprint**

No schedule yet because they have been trying to order trunking since October. It turns out that the DS0 they ordered does not have the capacity that they thought, nor does the T1 they want to use (not enough fiber between their switch and the selective router). This means that they need to order more lines.

### **Nextel**

No schedule yet because they have just ordered the trunking.

### **GeoComm**

Completed installation on all Oahu PSAPs on Dec 16, 2006.

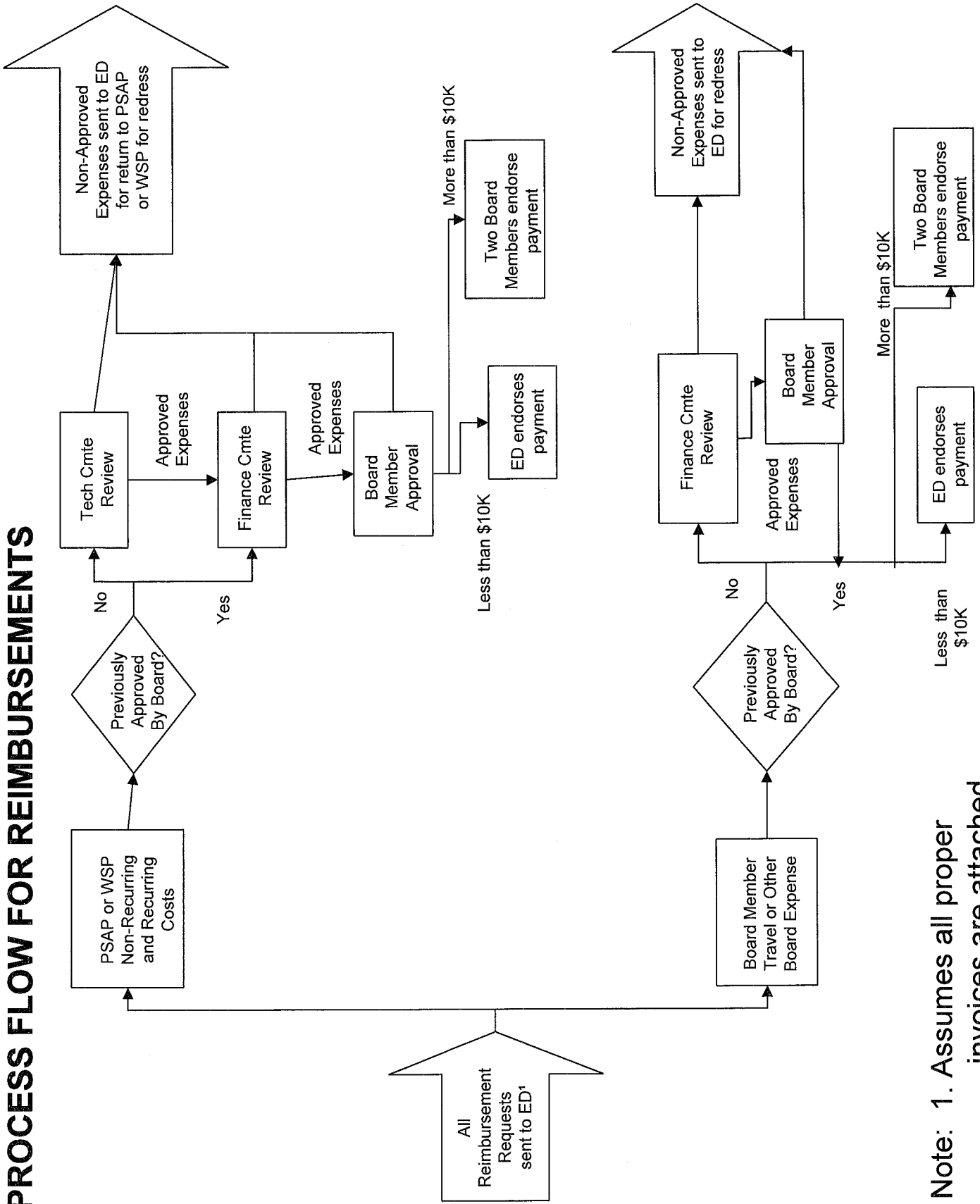
State of Hawaii  
Wireless Enhanced 911 Board

Executive Director's Monthly Report  
January 19, 2007

1. Reports Filed
  - a. Quarterly
    - i. Dec 31: Report of Funds not deposited in State Treasury
    - ii. Dec 31: Journal Voucher of funds not deposited in State Treasury
    - iii. Jan 15: Update of Revenue Estimates
  - b. Annual
    - i. Dec 11: Legislative Budget Testimonies for House Committee on Finance and Senate Ways and Means Committee
    - ii. Dec 12: Non General Fund Forms
    - iii. Jan 18: Identity Theft Task Force Personal Information Questionnaire
2. Inquiries – None
3. Upcoming Reporting Requirements
  - a. Quarterly
    - i. Feb 15: PSAP Grant Fund Quarterly Report
  - b. Annual – None
  - c. Other – None
4. Fund Activity – Budget Financial Reporting for Board
5. Action Items.
  - a. Certification Audit for Maui and other PSAPs. RCC Proposal.
  - b. Consumer Education Initiatives
  - c. Draft IGA for C&C of Honolulu, Hawaii County, Kauai County and Maui County
  - d. Press release for WE911 website; Russell Pang in Gov's Office
  - e. Reimbursement Request for Maui County - \$95,616.45
  - f. L. Robert Kimball Associates information provided to Tech Committee Chair on their proposal to provide board with emerging technology consulting service
  - g. Assistant Chief Richie Nakashima's replacement

Attach 3

# PROCESS FLOW FOR REIMBURSEMENTS



Note: 1. Assumes all proper invoices are attached.